(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 27 October 2005 (27.10.2005)

PCT

(10) International Publication Number WO 2005/101000 A2

(51) International Patent Classification?: G01N 33/574

(21) International Application Number: PCT/US2005/008957

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/557,704 31 March 2004 (31.03.2004) US

(71) Applicant (for all designated States except US): TROPHOGEN, INC. [US/US]; 6 Taft Court, Suite 150, Rockville, MD 20850 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SZKUDLINSKI, Mariusz, W. [US/US]; 6 Taft Court, Suite 150, Rockville, MD 20850 (US). WEINTRAUB, Bruce, D. [US/US]; 6 Taft Court, Suite 150, Rockville, MD 20850 (US).

(74) Agents: TUSCAN, Michael, S. et al., Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Avenue, NW, Washington, DC 20004 (US). (81) Designated States (unless otherwise indicated, for every kind of national protection available): AF, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID. IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HUMAN GLYCOPROTEIN HORMONE SUPERAGONISTS AND USES THEREOF

(57) Abstract: The present invention provides improved methods of imaging, targeted therapy and detection and diagnostics using modified glycoprotein hormones having increased activity over wild-type hormones.